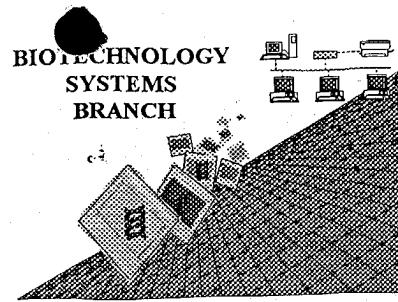# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _O9/823,181_

Source: _OIPE_

Date Processed by STIC: _4/19/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/823,181

DATE: 04/19/2001
TIME: 13:39:37

Input Set : A:\ES.txt
Output Set: N:\CRF3\04192001\I823181.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing Error Summary

ERROR DETECTED   SUGGESTED   CORRECTION   SERIAL NUMBER: _09/823,181_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos
The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.

8 _____ Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 _____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of "Artificial" (NEW RULES)
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.
Valid response is Artificial Sequence.

12 _____ Use of <220>Feature (NEW RULES)
Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 4/06/2001

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/823,181
DATE: 04/19/2001
TIME: 13:39:36

Input Set : A:\ES.txt
Output Set: N:\CRF3\04192001\I823181.raw

Does Not Comply
Corrected Diskette Needed

```
 3 <110> APPLICANT: Ju, Jingyue
 5 <120> TITLE OF INVENTION: High-Fidelity DNA Sequencing Using Solid Phase Capturable
 6       Dideoxynucleotides And Mass Spectrometry
 8 <130> FILE REFERENCE: 0575/62948/JPW/ADM/BJA
10 <140> CURRENT APPLICATION NUMBER: US/09/823,181
10 <141> CURRENT FILING DATE: 2001-03-30
10 <160> NUMBER OF SEQ ID NOS: 6
12 <170> SOFTWARE: PatentIn version 3.0
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 55
16 <212> TYPE: DNA
17 <213> ORGANISM: synthetic template
19 <400> SEQUENCE: 1
20 acttttact gttcgatccc tgcatctcag agctcgctat tccgagctta cacgt        55
23 <210> SEQ ID NO: 2
24 <211> LENGTH: 13
25 <212> TYPE: DNA
26 <213> ORGANISM: synthetic primer
28 <400> SEQUENCE: 2
29 taaggctcga atg                                                     13
32 <210> SEQ ID NO: 3
33 <211> LENGTH: 61
34 <212> TYPE: DNA
35 <213> ORGANISM: synthetic template
37 <400> SEQUENCE: 3
38 taaagctata ggtacagtat tagtaggacc tacacctgtc aacataatgg tccaggtcgt   60
40 g                                                                   61
43 <210> SEQ ID NO: 4
44 <211> LENGTH: 13
45 <212> TYPE: DNA
46 <213> ORGANISM: synthetic primer
48 <400> SEQUENCE: 4
49 ccaggtccag cac                                                     13
52 <210> SEQ ID NO: 5
53 <211> LENGTH: 129
54 <212> TYPE: DNA
55 <213> ORGANISM: synthetic template
57 <400> SEQUENCE: 5
58 catgtgtaac agttcctgca tgggcggcat gaacccgagg cccatcctca ccatcatcac   60
60 actggaagac tccagtggta atctactggg acggaacagc tttgaggtgc atgtttgtgc  120
62 ctgtcctgg                                                         129
65 <210> SEQ ID NO: 6
66 <211> LENGTH: 15
67 <212> TYPE: DNA
68 <213> ORGANISM: synthetic primer
70 <400> SEQUENCE: 6
71 ccaggacagg cacaa                                                   15
```

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or Scientific name (Genus/species)

invalid — delete colon

one of the three

<2207 <2237

Explanation for Unknown or Artificial Sequence goes in <2207-<2237 section.

(See item 12 on Error Summary Sheet)

same errors as above

same